

**Amendments to the Claims:**

This listing of claims replaces all prior versions and listings of claims in the application:

**Listing of Claims:**

Claims 1-35 (cancelled).

36. (new) A product for use in vapor deposition of a film of amphiphilic molecules or amphiphilic polymers on a substrate surface, said product consisting essentially of a vaporizable film forming substance of amphiphilic molecules or amphiphilic polymers carried by a tablet of solid state inert material, said film forming substance being vaporizable at a vaporizing temperature into a film forming vapor of amphiphilic molecules or amphiphilic polymers, the solid state inert material being unreactive with the film forming substance or with the vapor and remaining stable and unvaporized at the vaporizing temperature of the film forming substance.

37. (new) The product of claim 36 wherein said vaporizable film forming substance is an alkylsilsesquioxane polymer.

38. (new) The product of claim 36 wherein said vaporizable film forming substance is derived from  $R_mSiX_n$  where the non-polar R is a substituted silane or siloxane, an alkyl, a per-fluorinated alkyl, an alkyl ether, or a per-fluorinated alkyl ether group of 6-20 carbon atoms, where X is selected from the group consisting of halogens, hydroxy, alkoxy and acetoxy groups, and where m is 1-3, n is 1-3 and m+n equal 4.

39. (new) The product of claim 36 wherein said vaporizable film forming substance is derived from  $R_mSiX_n$ , where R is  $C_{18}$ , X is an ethoxy group, m is 1-3, n is 1-3 and  $m+n$  equal 4.

40. (new) The product of claim 36 wherein said vaporizable film forming substance is derived from alkylchlorosilanes.

41. (new) The product of claim 36 wherein said vaporizable film forming substance is derived from  $R_mSiX_n$  where R is an alkyl and alkyl ether or a fluorinated alkyl and fluorinated alkyl ether chain containing C6-C20, where X is Cl, Br, I, an alkoxy group or an acetoxy group, and where m is 1-3, n is 1-3 and  $m+n$  equal 4.

42. (new) The product of claim 36 wherein said vaporizable film forming substance is derived from octadecyltrichlorosilane.

43. (new) The product of claim 36 wherein said film forming substance is dehydrated.

44. (new) The product of claim 36 wherein said film forming substance is in a solid state.

45. (new) The product of claim 36 wherein said film forming substance is partially polymerized.

46. (new) The product of claim 36 wherein said vaporizable film forming substance of amphiphilic molecules or amphiphilic polymers comprises 10-50% by weight of the combined solid state inert material and the film forming substance.

47. (new) The product of claim 36 wherein the vaporizable film forming substance of amphiphilic molecules or amphiphilic polymers is present in an amount of 0.5-5.0 grams.

48. (new) The product of claim 36 wherein the vaporizable film forming substance of amphiphilic molecules or amphiphilic polymers is present in an amount of 0.5-1.0 grams.

49. (new) The product of claim 36 wherein said vaporizable solid state film forming substance is a powder mixed with said solid state inert material.

50. (new) The product of claim 36 wherein said tablet is a compressed mixture of said vaporizable film forming substance and said solid state inert material.

51. (new) The product of claim 36 wherein said solid state inert material is particulate and is compressed into a tablet, and said film forming substance is distributed at least partially in the tablet.

52. (new) The product of claim 51 wherein the tablet is a compressed mixture of said solid state inert material and said film forming substance.

53. (new) A product for use in vapor deposition of a film of amphiphilic molecules or amphiphilic polymers on a substrate surface, said product consisting essentially of a compressed solid state inert material that contains a vaporizable film forming substance of amphiphilic molecules or amphiphilic polymers, said film forming substance being vaporizable at a vaporizing temperature into a film forming vapor of amphiphilic molecules or amphiphilic polymers, the solid state inert material being unreactive with the film forming substance or with the vapor and remaining stable and unvaporized at the vaporizing temperature of the film forming substance.

54. (new) The product of claim 53 wherein at least said solid state inert material is compressed into a cup.

55. (new) The product of claim 54 wherein said cup is of metal.

56. (new) The product of claim 54 wherein both said solid state inert material and said film forming substance are compressed into the cup.

57. (new) The product of claim 53 wherein at least said solid state inert material is compressed into a tablet.

58. (new) The product of claim 57 wherein both the solid state inert material and the film forming substance are compressed into a tablet.

59. (new) The product of claim 53 wherein the solid state inert material is particulate.
60. (new) The product of claim 53 wherein both the solid state inert material and the film forming substance are particulate.
61. (new) The product of claim 53 wherein the film forming substance is partially polymerized.
62. (new) The product of claim 53 wherein said film forming substance is in a solid state.
63. (new) The product of claim 53 wherein said film forming substance is dehydrated.
64. (new) The product of claim 53 wherein said compressed inert material is particulate and said film forming substance is at least partially distributed therein.
65. (new) The product of claim 53 wherein the vaporizable film forming substance of amphiphilic molecules or amphiphilic polymers is present in an amount of 0.5-5.0 grams.
66. (new) A product for use in vapor deposition of a film of amphiphilic molecules or amphiphilic polymers on a substrate surface comprising: a vaporizable film forming substance

of amphiphilic molecules or amphiphilic polymers carried by a tablet of solid state inert material, said film forming substance being vaporizable at a vaporizing temperature into a film forming vapor of amphiphilic molecules or amphiphilic polymers, the solid state inert material being unreactive with the film forming substance or with the vapor and remaining stable and unvaporized at the vaporizing temperature of the film forming substance.

67. (new) The product of claim 66 wherein said vaporizable film forming substance is an alkylsilsesquioxane polymer.

68. (new) The product of claim 66 wherein said vaporizable film forming substance is derived from  $R_mSiX_n$  where the non-polar R is a substituted silane or siloxane, an alkyl, a per-fluorinated alkyl, an alkyl ether, or a per-fluorinated alkyl ether group of 6-20 carbon atoms, where X is selected from the group consisting of halogens, hydroxy, alkoxy and acetoxy groups, and where m is 1-3, n is 1-3 and  $m+n$  equal 4.

69. ( new) The product of claim 66 wherein said vaporizable film forming substance is derived from  $R_mSiX_n$ , where R is  $C_{18}$ , X is an ethoxy group, m is 1-3, n is 1-3 and  $m+n$  equal 4.

70. (new) The product of claim 66 wherein said vaporizable film forming substance is derived from alkylchlorosilanes.

71. (new) The product of claim 66 wherein said vaporizable film forming substance is derived from  $R_mSiX_n$  where R is an alkyl and alkyl ether or a fluorinated alkyl and fluorinated alkyl ether chain containing C6-C20, where X is Cl, Br, I, an alkoxy group or an acetoxy group, and where m is 1-3, n is 1-3 and m+n equal 4.

72. (new) The product of claim 66 wherein said vaporizable film forming substance is derived from octadecyltrichlorosilane.

73. (new) The product of claim 66 wherein said film forming substance is dehydrated.

74. (new) The product of claim 66 wherein said film forming substance is in a solid state.

75. (new) The product of claim 66 wherein said film forming substance is partially polymerized.

76. (new) The product of claim 66 wherein said vaporizable film forming substance of amphiphilic molecules or amphiphilic polymers comprises 10-50% by weight of the combined solid state inert material and the film forming substance.

77. (new) The product of claim 66 wherein the vaporizable film forming substance of amphiphilic molecules or amphiphilic polymers is present in an amount of 0.5-5.0 grams.

78. (new) The product of claim 66 wherein the vaporizable film forming substance of amphiphilic molecules or amphiphilic polymers is present in an amount of 0.5-1.0 grams.

79. (new) The product of claim 66 wherein said vaporizable solid state film forming substance is a powder mixed with said solid state inert material.

80. (new) The product of claim 66 wherein said tablet is a compressed mixture of said vaporizable film forming substance and said solid state inert material.

81. (new) The product of claim 66 wherein said solid state inert material is particulate and is compressed into a tablet, and said film forming substance is distributed at least partially in the tablet.

82. (new) The product of claim 81 wherein the tablet is a compressed mixture of said solid state inert material and said film forming substance.

83. (new) A product for use in vapor deposition of a film of amphiphilic molecules or amphiphilic polymers on a substrate surface, said product consisting essentially of a compressed solid state inert material that contains a vaporizable film forming substance of amphiphilic molecules or amphiphilic polymers, said film forming substance being vaporizable at a vaporizing temperature into a film forming vapor of amphiphilic molecules or amphiphilic polymers, the solid state inert material being unreactive with the film forming substance or with



the vapor and remaining stable and unvaporized at the vaporizing temperature of the film forming substance.

84. (new) The product of claim 83 wherein at least said solid state inert material is compressed into a cup.

85. (new) The product of claim 84 wherein said cup is of metal.

86. (new) The product of claim 84 wherein both said solid state inert material and said film forming substance are compressed into the cup.

87. (new) The product of claim 83 wherein at least said solid state inert material is compressed into a tablet.

88. (new) The product of claim 87 wherein both the solid state inert material and the film forming substance are compressed into a tablet.

89. (new) The product of claim 83 wherein the solid state inert material is particulate.

90. (new) The product of claim 83 wherein both the solid state inert material and the film forming substance are particulate.

91. (new) The product of claim 83 wherein the film forming substance is partially polymerized.
92. (new) The product of claim 83 wherein said film forming substance is in a solid state.
93. (new) The product of claim 83 wherein said film forming substance is dehydrated.
94. (new) The product of claim 83 wherein said compressed inert material is particulate and said film forming substance is at least partially distributed therein.
95. (new) The product of claim 83 wherein the vaporizable film forming substance of amphiphilic molecules or amphiphilic polymers is present in an amount of 0.5-5.0 grams.
96. (new) A product for use in vapor deposition of a film of amphiphilic molecules or amphiphilic polymers on a substrate surface, said product comprising a body of inert material, at least a portion of said body having a vaporizable film forming substance of amphiphilic molecules or amphiphilic polymers interspersed therein, said film forming substance being vaporizable at a vaporizing temperature into a film forming vapor of amphiphilic molecules or amphiphilic polymers, the inert material being unreactive with the film forming substance or with the vapor and remaining stable and unvaporized at the vaporizing temperature of the film forming substance.

97. (new) The product of claim 96 wherein said product consists essentially of said inert material and said film forming substance.

98. (new) The product of claim 96 wherein said vaporizable film forming substance is an alkylsilsesquioxane polymer.

99. (new) The product of claim 96 wherein said vaporizable film forming substance is derived from  $R_mSiX_n$  where the non-polar R is a substituted silane or siloxane, an alkyl, a per-fluorinated alkyl, an alkyl ether, or a per-fluorinated alkyl ether group of 6-20 carbon atoms, where X is selected from the group consisting of halogens, hydroxy, alkoxy and acetoxy groups, and where m is 1-3, n is 1-3 and  $m+n$  equal 4.

100. (new) The product of claim 96 wherein said vaporizable film forming substance is derived from  $R_mSiX_n$ , where R is  $C_{18}$ , X is an ethoxy group, m is 1-3, n is 1-3 and  $m+n$  equal 4.

101. (new) The product of claim 96 wherein said vaporizable film forming substance is derived from alkylchlorosilanes.

102. (new) The product of claim 96 wherein said vaporizable film forming substance is derived from  $R_mSiX_n$  where R is an alkyl and alkyl ether or a fluorinated alkyl and fluorinated alkyl ether chain containing  $C_6-C_{20}$ , where X is Cl, Br, I, an alkoxy group or an acetoxy group, and where m is 1-3, n is 1-3 and  $m+n$  equal 4.

103. (new) The product of claim 96 wherein said vaporizable film forming substance is derived from octadecyltrichlorosilane.

104. (new) The product of claim 96 wherein said film forming substance is dehydrated.

105. (new) The product of claim 96 wherein said film forming substance is in a solid state.

106. (new) The product of claim 96 wherein said film forming substance is partially polymerized.

107. (new) The product of claim 96 wherein said vaporizable film forming substance of amphiphilic molecules or amphiphilic polymers comprises 10-50% by weight of the combined inert material and the film forming substance.

108. (new) The product of claim 96 wherein the vaporizable film forming substance of amphiphilic molecules or amphiphilic polymers is present in an amount of 0.5-5.0 grams.

109. (new) The product of claim 96 wherein the vaporizable film forming substance of amphiphilic molecules or amphiphilic polymers is present in an amount of 0.5-1.0 grams.

110. (new) The product of claim 96 wherein said vaporizable solid state film forming substance is a powder.

111. (new) The product of claim 96 wherein said product is a compressed mixture of said vaporizable film forming substance and said inert material.

112. (new) The product of claim 96 wherein said inert material is particulate and is compressed into a tablet.

113. (new) The product of claim 112 wherein the tablet is a compressed mixture of said inert material and said film forming substance.

114. (new) A product for use in vapor deposition of a film of amphiphilic molecules or amphiphilic polymers on a substrate surface, said product consisting essentially of a vaporizable film forming substance of amphiphilic molecules or amphiphilic polymers and a particulate solid state inert material, said film forming substance being vaporizable at a vaporizing temperature into a film forming vapor of amphiphilic molecules or amphiphilic polymers, said particulate solid state inert material being unreactive with the film forming substance or with the vapor and remaining stable and unvaporized at the vaporizing temperature of the film forming substance.

115. (new) A product consisting essentially of a solid state inert material having a vaporizable film forming substance of amphiphilic molecules or amphiphilic polymers at least partially interspersed therein.

116. (new) A vaporizable film forming substance of amphiphilic molecules or amphiphilic polymers, said film forming substance consisting essentially of a dehydrated solid state alkylsilsesquioxane polymer.

117. (new) A product for use in vapor deposition of a film of amphiphilic molecules or amphiphilic polymers on a substrate surface, said product comprising a body of inert material, at least a portion of said body having a coating composition interspersed therein, said coating composition including a vaporizable film forming substance of amphiphilic molecules or amphiphilic polymers that is vaporizable at a vaporizing temperature into a film forming vapor of amphiphilic molecules or amphiphilic polymers, the inert material being unreactive with the film forming substance or with the vapor and remaining stable and unvaporized at the vaporizing temperature of the film forming substance.

118. (new) The product of claim 117 wherein said product consists essentially of said inert material and said coating composition.

119. (new) The product of claim 117 wherein said vaporizable film forming substance of amphiphilic molecules or amphiphilic polymers consists essentially of the only film forming material in said coating composition.

120. (new) The product of claim 117 wherein said vaporizable film forming substance is an alkylsilsesquioxane polymer.

121. (new) The product of claim 117 wherein said vaporizable film forming substance is derived from  $R_mSiX_n$  where the non-polar R is a substituted silane or siloxane, an alkyl, a per-fluorinated alkyl, an alkyl ether, or a per-fluorinated alkyl ether group of 6-20 carbon atoms, where X is selected from the group consisting of halogens, hydroxy, alkoxy and acetoxy groups, and where m is 1-3, n is 1-3 and  $m+n$  equal 4.

122. (new) The product of claim 117 wherein said vaporizable film forming substance is derived from  $R_mSiX_n$ , where R is  $C_{18}$ , X is an ethoxy group, m is 1-3, n is 1-3 and  $m+n$  equal 4.

123. (new) The product of claim 117 wherein said vaporizable film forming substance is derived from alkylchlorosilanes.

124. (new) The product of claim 117 wherein said vaporizable film forming substance is derived from  $R_mSiX_n$  where R is an alkyl and alkyl ether or a fluorinated alkyl and fluorinated alkyl ether chain containing  $C_6$ - $C_{20}$ , where X is  $C_1$ , Br, I, an alkoxy group or an acetoxy group, and where m is 1-3, n is 1-3 and  $m+n$  equal 4.

125. (new) The product of claim 117 wherein said vaporizable film forming substance is derived from octadecyltrichlorosilane.

126. (new) The product of claim 117 wherein said film forming substance is dehydrated.

127. (new) The product of claim 117 wherein said film forming substance is in a solid state.

128. (new) The product of claim 117 wherein said film forming substance is partially polymerized.

129. (new) The product of claim 117 wherein said vaporizable film forming substance of amphiphilic molecules or amphiphilic polymers comprises 10-50% by weight of the combined inert material and the film forming substance.

130. (new) The product of claim 117 wherein the vaporizable film forming substance of amphiphilic molecules or amphiphilic polymers is present in an amount of 0.5-5.0 grams.

131. (new) The product of claim 117 wherein the vaporizable film forming substance of amphiphilic molecules or amphiphilic polymers is present in an amount of 0.5-1.0 grams.

132. (new) The product of claim 117 wherein said vaporizable solid state film forming substance is a powder.



133. (new) The product of claim 117 wherein said product is a compressed mixture of said vaporizable film forming substance and said inert material.

134. (new) The product of claim 117 wherein said inert material is particulate and is compressed into a tablet.

135. (new) The product of claim 134 wherein the tablet is a compressed mixture of said inert material and said film forming substance.

136. (new) A composition that includes a solid state film forming substance of amphiphilic molecules or amphiphilic polymers and an inert binder pressed into a tablet.

137. (new) The composition of claim 136 wherein said film forming substance is an alkylsilsesquioxane polymer.

138. (new) The composition of claim 136 wherein 10-50% by weight of said composition is said film forming substance.

139. (new) The composition of claim 138 wherein said binder is a metal oxide.

140. (new) The composition of claim 138 wherein said film forming substance is an alkylsilsesquioxane polymer.

141. (new) A composition that includes a solid state film forming substance of amphiphilic molecules or amphiphilic polymers and an inert binder pressed into a metal cup.

142. (new) The composition of claim 141 wherein said film forming substance is an alkylsilsesquioxane polymer.

143. (new) A composition that includes a solid state film forming alkylsilsesquioxane polymer and an inert binder, said alkylsilsesquioxane polymer being derived from  $R_mSiX_n$ , where R is  $C_{18}$ , X is an ethoxy group, m is 1-3, n is 1-3 and  $m+n$  equal 4.

144. (new) A composition that includes a solid state film forming alkylsilsesquioxane polymer and an inert binder, said alkylsilsesquioxane polymer being derived from octadecyltrichlorosilane.

145. (new) A solid state composition consisting essentially of a solid state inert binder that carries a heat vaporizable, solid state alkylsilsesquioxane polymer.